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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 20

Complete if Known

Application Number	10/678599
Filing Date	October 03, 2003
First Named Inventor	Robert C. Lam
Art Unit	1794
Examiner Name	Jennifer A. Steele

Attorney Docket Number DKT01092 (0309.4094.901)

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
		US- 20020068164 A1	06-06-2002	Martin	
		US- 20020164473 A1	11-07-2002	Buckley	
		US- 20030050831 A1	03-13-2003	Klayh	
		US- 20030053735 A1	03-20-2003	Vernooy	
		US- 20030134098 A1	06-17-2003	Bauer et al.	
		US- 20030154882 A1	08-21-2003	Nagata et al.	
		US- 20040006192 A1	01-08-2004	Aiba et al.	
		US- 20040033341 A1	02-19-2004	Lam et al.	
		US- 20040043103 A1	03-04-2004	Chen et al.	
		US- 20040043243 A1	03-04-2004	Chen et al.	
		US- 20040081795 A1	04-29-2004	Wang et al.	
		US- 20040081813 A1	04-29-2004	Dong	
		US- 20040192534 A1	09-30-2004	Nixon et al.	
		US- 20040198866 A1	10-07-2004	Sasaki	
		US- 20040224864 A1	11-11-2004	Patterson et al.	
		US- 20050004258 A1	01-06-2005	Yamamoto et al.	
		US- 20050025967 A1	02-03-2005	Lawton et al.	
		US- 20050039872 A1	02-24-2005	Kimura et al.	
		US- 20050064778 A1	03-24-2005	Lam et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
		CH312771 (A)	02-29-1956	DEMAG ZUG GMBH		
		CH1057662 (A)	01-08-1992	ANSHAN IRON & STEEL		
		CN1500850 (A)	06-02-2004	BorgWarner Inc.		
		DE10114074 A1	09-26-2002	ZF Sachs AG		
		DE10157583 C1	12-19-2002	SGL Carbon AG		
		DE19530443 A1	10-10-1996	Mercedes-Benz		

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Sheet 2 of 20

Application Number	10/678599
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First Named Inventor	Robert C. Lam
Art Unit	1794
Examiner Name	Jennifer A. Steele
Attorney Docket Number	DKT01092 (0309.4094.901)

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		Number-Kind Code ² (<i>if known</i>)			
		US- 20050074595 A1	04-07-2005	Lam	
		US- 20050075010 A1	04-07-2005	Lam et al.	
		US- 20050075021 A1	04-07-2005	Lam et al.	
		US- 20050075022 A1	04-07-2005	Lam	
		US- 20050075413 A1	04-07-2005	Lam	
		US- 20050075414 A1	04-07-2005	Lam et al.	
		US- 20050191477 A1	09-01-2005	Dong	
		US- 20050271876 A1	12-08-2005	Walker et al.	
		US- 20050281971 A1	12-22-2005	Lam et al.	
		US- 20060019085 A1	01-26-2006	Lam et al.	
		US- 20060062987 A1	03-23-2006	Niewohner et al.	
		US- 20060008635 A1	01-12-2006	Dong et al.	
		US- 20060121263 A1	06-08-2006	Komori et al.	
		US- 20060151912 A1	06-13-2006	Bauer	
		US- 20060241207 A1	10-26-2006	Lam et al.	
		US- 20070011951 A1	01-18-2007	Gaeta et al.	
		US- 20070062777 A1	03-22-2007	Zagrodzki et al.	
		US- 20070117881 A1	05-24-2007	Watanabe et al.	
		US- 20070205076 A1	09-06-2007	Takahashi et al.	

FOREIGN PATENT DOCUMENTS

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		DE102008013907 (A1)	09-17-2009	BorgWarner Inc.		
		DE2828918 (A1)	01-18-1979	Aisin Chem		
		DE2854051 (A1)	06-28-1979	BorgWarner		
		DE2937471 A1	03-20-1980	Nissan Motor Co. Ltd.		
		DE3532795 (A1)	04-17-1986	Elin Union AG		
		DE3622437 A1	10-15-1987	Daimler-Benz AG		

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Sheet 3 of 20

Application Number	10/678599
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First Named Inventor	Robert C. Lam
Art Unit	1794
Examiner Name	Jennifer A. Steele

Attorney Docket Number DKT01092 (0309.4094.901)

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		US- 1039168	09-24-1912	R. A. Melton	
		US- 1682198	08-28-1928	E. N. Sitton	
		US- 1860147	05-24-1932	W. S. Hadley	
		US- 2100347	11-30-1937	Neafeld	
		US- 2182208	12-05-1939	Nason	
		US- 2221893	11-19-1940	S. O. White	
		US- 2307814	01-12-1943	G. Walters	
		US- 2316874	04-20-1943	H. T. Kraft	
		US- 2354526	07-25-1944	R. Lapsley et al.	
		US- 2516544	07-25-1950	C. A. Breeze	
		US- 2555261	05-29-1951	G. Walters	
		US- 2702770	02-22-1955	R. E. Steck	
		US- 2749264	06-05-1956	M. H. Emrick	
		US- 2779668	01-29-1957	Daniels	
		US- 3020139	02-06-1962	J. E. Camp et al.	
		US- 3080028	03-05-1963	E. P. Kennedy	
		US- 3215648	11-02-1965	Duffy	
		US- 3270846	09-06-1966	H. F. Arledter et al.	
		US- 3429766	02-25-1969	R. W. Stormfeltz	

FOREIGN PATENT DOCUMENTS

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		Country Code ³ -Number ⁴ -Kind Code ⁵ (<i>if known</i>)				
		DE3705657 A1	09-01-1988	ZWN Zahnradwerk		
		DE4211010 (A1)	10-22-1992	Akebono Brake Ind		
		DE4302773 A1	08-05-1993	Dynax Corp		
		FR2430545 A1	02-01-1980	Toho Beslon Co		
		EP0180381 A2	05-07-1986	Nuturn Corporation		
		EP0202145 A1	11-20-1986	Valeo		

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Sheet 4

of 20

Application Number	10/678599
Filing Date	October 03, 2003
First Named Inventor	Robert C. Lam
Art Unit	1794
Examiner Name	Jennifer A. Steele
Attorney Docket Number	DKT01092 (0309.4094.901)

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		Number-Kind Code ² (if known)			
		US- 3520390	07-14-1970	L. O. Bentz	
		US- 3526306	09-01-1970	L. O. Bentz	
		US- 3578122	05-11-1971	Magnier	
		US- 3654777	04-11-1972	Grundman	
		US- 3746669	07-17-1973	Dunnom	
		US- 3871934	03-18-1975	Marin	
		US- 3885006	05-20-1975	Hatch et al.	
		US- 3899050	08-12-1975	Savary et al.	
		US- 3911045	10-07-1975	Hartmann et al.	
		US- 3927241	12-16-1975	Augustin	
		US- 3944686	03-16-1976	Froberg	
		US- 3950047	04-13-1976	Capelli	
		US- 3980729	09-14-1976	Yokokawa et al.	
		US- 4002225	01-11-1977	Marin	
		US- 4020226	04-26-1977	Andrianov et al.	
		US- 4033437	07-05-1977	Labat	
		US- 4045608	08-30-1977	Todd	
		US- 4051097	09-27-1977	Aldrich	
		US- 4084863	04-18-1978	Capelli	

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		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
		EP0264096 A2	04-20-1988	American Cuanamid Compan		
		EP0352363 B1	01-31-1988	Sterling Chemicals Int.		
		EP0393845 A1	10-24-1990	Eaton Corporation		
		EP0510875 A2	10-28-1992	Nichias Corporatoin		
		EP0521843 A1	01-07-1993	Hoerbiger & Co.		
		EP0554902 A1	08-11-1993	Mitsubishi Gas Chemical		

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		US- 4098630	07-04-1978	Morse	
		US- 4113894	09-12-1978	Koch, II	
		US- 4150188	04-17-1979	Brulet	
		US- 4197223	04-08-1980	Bartram	
		US- 4209086	01-24-1980	Friedrich	
		US- 4226906	10-07-1980	Jacob	
		US- 4239666	12-16-1980	Jacko et al.	
		US- 4256801	03-17-1981	Chuluda	
		US- 4259397	03-31-1981	Saito et al.	
		US- 4260047	04-07-1981	Nels	
		US- 4267912	05-19-1981	Bauer et al.	
		US- 4291794	09-29-1981	Bauer	
		US- 4320823	03-23-1982	Covaleski	
		US- 4324706	04-13-1982	Tabe et al.	
		US- 4352750	10-05-1982	Eschen	
		US- 4373038	02-08-1983	Moraw et al.	
		US- 4374211	02-15-1983	Gallagher et al.	
		US- 4396100	08-02-1983	Eltze	
		US- 4444574	04-24-1984	Tradwell et al.	

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		EP0557905 A1	09-01-1993	Nissinbo Industries, Inc		
		EP0581696 A1	02-02-1994	Le Carbone Lorraine		
		EP0637698 A1	02-08-1995	BorgWarner Automotive Inc		
		EP0640774 B1	03-01-1995	BorgWarner Automotive Inc		
		EP0669482 A2	08-30-1995	Hoerbiger & Co.		
		EP0965887 A1	02-07-1996	BorgWarner Automotive Inc		

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		US- 4451500	05-20-1984	Ejimaki et al.	
		US- 4453106	06-05-1984	La Fiandra	
		US- 4456650	06-26-1984	Melotik et al.	
		US- 4457967	07-03-1984	Chareire et al.	
		US- 4490432	12-25-1984	Jordan	
		US- 4514541	04-30-1985	Frances	
		US- 4522290	06-11-1985	Klink	
		US- 4524400	06-18-1985	Wolff et al.	
		US- 4543106	09-24-1985	Parekh	
		US- 4563386	01-07-1986	Schwartz	
		US- 4593802	06-10-1986	Danko, Jr.	
		US- 4628001	12-09-1986	Sasaki et al.	
		US- 4639392	01-27-1987	Nels et al.	
		US- 4646900	03-03-1987	Crawford et al.	
		US- 4656203	04-07-1987	Parker	
		US- 4657951	04-14-1987	Takarada et al.	
		US- 4663230	05-05-1987	Tennent	
		US- 4663368	05-05-1987	Harding et al.	
		US- 4672082	06-09-1987	Nakagawa et al.	

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		EP0766019 A1	04-02-1997	BorgWarner Automotive Inc		
		EP0807766 A1	11-19-1997	BorgWarner Automotive Inc		
		EP0854305 A1	07-22-1998	BorgWarner Automotive Inc		
		EP0971151 A1	01-12-2000	BorgWarner Auotmotive Inc		
		EP1039168 A1	09-27-2000	BorgWarner Inc.		
		EP1200097 A1	05-08-2002	BorgWarner Inc.		

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Sheet 7 of 20

Application Number	10/678599
Filing Date	October 03, 2003
First Named Inventor	Robert C. Lam
Art Unit	1794
Examiner Name	Jennifer A. Steele
Attorney Docket Number	DKT01092 (0309.4094.901)

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
		US- 4674616	06-23-1987	Mannino, Jr.	
		US- 4694937	09-22-1987	Jonas	
		US- 4698889	10-13-1987	Patzer et al.	
		US- 4700828	10-20-1987	Winkel	
		US- 4726455	02-23-1988	East	
		US- 4732247	03-22-1988	Frost	
		US- 4742723	05-10-1988	Lanzerath et al.	
		US- 4743634	05-10-1988	Royer	
		US- 4770283	09-13-1988	Putz et al.	
		US- 4772508	09-20-1988	Brassell	
		US- 4792361	12-20-1988	Double et al.	
		US- 4861809	08-29-1989	Ogawa et al.	
		US- 4878282	11-07-1989	Bauer	
		US- 4913267	04-03-1990	Campbell et al.	
		US- 4915856	04-10-1990	Jamison	
		US- 4917743	04-17-1990	Gramberger et al.	
		US- 4918116	04-17-1990	Gardziella et al.	
		US- 4927431	05-22-1990	Buchanan et al.	
		US- 4951798	08-28-1990	Knoess	

FOREIGN PATENT DOCUMENTS

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		Country Code ³ *Number ⁴ *Kind Code ⁵ (if known)				
		EP1391629 A1	02-25-2004	BorgWarner Inc.		
		EP1394438 A1	03-03-2004	BorgWarner Inc.		
		EP1396655 A1	03-10-2004	BorgWarner Inc.		
		EP1517062 A1	03-23-2005	BorgWarner Inc.		
		EP1521001 A2	04-06-2005	BorgWarner Inc.		
		EP1521007 A2	04-06-2005	BorgWarner Inc.		

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Sheet 8 of 20

Application Number	10/678599
Filing Date	October 03, 2003
First Named Inventor	Robert C. Lam
Art Unit	1794
Examiner Name	Jennifer A. Steele

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		Number-Kind Code ² (if known)			
		US- 4950530	08-21-1990	Shibatani	
		US- 4983457	01-08-1991	Hino et al.	
		US- 4986397	01-22-1991	Vierk	
		US- 4995500	02-26-1991	Payvar	
		US- 4997067	03-05-1991	Watts	
		US- 5004497	04-02-1991	Shibata et al.	
		US- 5017268	05-21-1991	Clitherow et al.	
		US- 5033596	07-23-1991	Genise	
		US- 5038628	08-13-1991	Kayama	
		US- 5076882	12-31-1991	Oyanagi et al.	
		US- 5080969	01-14-1992	Tokumura	
		US- 5088050	01-20-1992	Selz et al.	
		US- 5093388	03-03-1992	Siemon, Jr. et al.	
		US- 5094331	03-10-1992	Fujimoto et al.	
		US- 5101953	04-07-1992	Payvar	
		US- 5105522	04-21-1992	Gramberger et al.	
		US- 5143192	09-01-1992	Vojacek et al.	
		US- 5164256	11-17-1992	Sato et al.	
		US- 5211068	05-18-1993	Spitale et al.	

FOREIGN PATENT DOCUMENTS

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		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
		EP1614926 A1	01-11-2006	BorgWarner Inc.		
		EP1911990 A2	04-16-2008	Honeywell International		
		GB1054890	01-11-1967	Ferodo Lmtd.		
		GB1604827	12-16-1981	Ferodo Lmtd.		
		GB2241246 A	08-28-1991	Nissinbo Industries Inc		
		GB2224285 A	05-02-1990	Honda Giken Kogyo Kabush		

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Sheet 9 of 20

Application Number	10/678599
Filing Date	October 03, 2003
First Named Inventor	Robert C. Lam
Art Unit	1794
Examiner Name	Jennifer A. Steele

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		Number-Kind Code ² (if known)			
		US- 5221401	06-22-1993	Genise	
		US- 5233736	08-10-1993	Hill	
		US- 5259947	11-09-1993	Kalback et al.	
		US- 5266395	11-30-1993	Yamashita et al.	
		US- 5269400	12-14-1993	Fogelberg	
		US- 5290627	03-01-1994	Ikuta	
		US- 5313793	05-24-1994	Kirkwood et al.	
		US- 5332075	06-26-1994	Quigley et al.	
		US- 5335765	08-09-1994	Takakura et al.	
		US- 5354603	10-11-1994	Errede et al.	
		US- 5376425	12-27-1994	Asano et al.	
		US- 5395884	08-07-1995	Miyachi et al.	
		US- 5396552	03-07-1995	Jahn et al.	
		US- 5437780	08-01-1995	Southard et al.	
		US- 5439087	08-08-1995	Umezawa	
		US- 5445060	08-29-1995	Randall et al.	
		US- 5453317	09-26-1995	Yesnik	
		US- 5460255	10-24-1995	Quigley et al.	
		US- 5472995	12-05-1995	Kaminski et al.	

FOREIGN PATENT DOCUMENTS

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		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
		JP3281686 A	12-12-1991	Nissin Kogyo KK		
		JP5247233 A	09-24-1993	Toyota Motor Corp		
		JP07-151174	06-13-1996	BorgWarner Automotive Inc		
		JP07-173301	07-11-1995	BorgWarner Automotive Inc		
		JP09-176333	07-08-1997	BorgWarner Automotive Inc		
		JP10110740 A	04-28-1998	BorgWarner Automotive		

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Sheet 10 of 20

Application Number	10/678599
Filing Date	October 03, 2003
First Named Inventor	Robert C. Lam
Art Unit	1794
Examiner Name	Jennifer A. Steele
Attorney Docket Number	DKT01092 (0309.4094.901)

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		Number-Kind Code ² (if known)			
		US- 5474159	12-12-1995	Soennecken et al.	
		US- 5478642	12-26-1995	McCord	
		US- 5501788	03-26-1996	Romine et al.	
		US-			
		US- 5520866	05-28-1996	Kaminski et al.	
		US- 5529666	06-25-1996	Yesnik	
		US- 5540621	06-30-1996	Keester et al.	
		US- 5540832	06-30-1996	Romino	
		US- 5540903	06-30-1996	Romine	
		US- 5571372	11-05-1996	Miyaishi et al.	
		US- 5585166	12-17-1996	Kearsey	
		US- 5615758	04-01-1997	Nels	
		US- 5620075	04-15-1997	Larsen et al.	
		US- 5639804	06-17-1997	Yesnik	
		US- 5646876	07-09-1997	Barts	
		US- 5648041	07-15-1997	Rodgers et al.	
		US- 5662990	08-02-1997	Winkler	
		US- 5670231	09-23-1997	Ohya et al.	
		US- 5671835	09-30-1997	Tanaka et al.	

FOREIGN PATENT DOCUMENTS

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		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
		JP1134002 A	05-26-1989	Ibiden Co. Ltd.		
		JP1163056 A	06-27-1989	Mitsubishi Heavy Ind Ltd		
		JP1307529 A	12-12-1989	Aisin Chem		
		JP2000-091186	03-31-2000	Dainippon Screen Mfg Co		
		JP2002005317 A	01-09-2002	Yokohama Hydex Co.		
		JP20000336343	12-05-2000	BorgWarner Inc.		

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Sheet 11 of 20

Application Number	10/678599
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First Named Inventor	Robert C. Lam
Art Unit	1794
Examiner Name	Jennifer A. Steele
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		US- 5674947	10-07-1997	Oishi et al.	
		US- 5676577	10-14-1997	Lam et al.	
		US- 5705120	01-06-1998	Ueno et al.	
		US- 5707005	01-13-1998	Lam et al.	
		US- 5718855	02-17-1998	Akahori et al.	
		US- 5733176	03-31-1998	Robinson et al.	
		US- 5753018	05-19-1998	Lamport et al.	
		US- 5753356	05-19-1998	Lam et al.	
		US- 5766523	06-16-1998	Rodgers et al.	
		US- 5771691	06-30-1998	Kirkwood et al.	
		US- 5775468	06-17-1998	Lam et al.	
		US- 5776288	06-07-1998	Stefanutti et al.	
		US- 5777791	07-07-1998	Hedblom	
		US- 5792544	08-11-1998	Klein	
		US- 5803210	09-08-1998	Kohno et al.	
		US- 5816001	10-06-1998	Sirany	
		US- 5827610	10-27-1998	Ramachandran	
		US- 5842551	12-01-1998	Nels	
		US- 5834551	11-10-1998	Haraguchi et al.	

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		JP2002003280 A	01-09-2002	Toray Industries		
		JP2003003155	01-08-2003	Aisin Seiki: Aisin Chem		
		JP2004132547 A	04-30-2004	BorgWarner Inc.		
		JP2004217790 A	08-05-2004	Dainatsukusu KK		
		JP2004266087 A	09-30-2004	Toyota Central Res & Dev		
		JP2017223 A	01-22-1990	FCC KK		

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		US- 5845754	12-08-1998	Weilant	
		US- 5856244	01-05-1999	Lam et al	
		US- 5858166	01-12-1999	James et al.	
		US- 5858883	01-12-1999	Lam et al.	
		US- 5895716	04-13-1999	Fiala et al.	
		US- 5858883	01-12-1999	Lam et al	
		US- 5889082	03-30-1999	Kaminski et al	
		US- 5897737	04-27-1999	Quigley	
		US- 5919528	07-06-1999	Huijs et al.	
		US- 5919837	07-06-1999	Kaminski et al	
		US- 5052240	09-14-1999	Gibson et al.	
		US- 5058507	09-28-1999	Lam et al	
		US- 5065659	10-12-1999	Smith et al	
		US- 5975270	11-02-1999	Tokune et al.	
		US- 5975988	11-02-1999	Christianson	
		US- 5088375	11-22-1999	Borg	
		US- 5088390	11-22-1999	Lee	
		US- 5088387	12-07-1999	Lam et al	
		US- 5998311	12-07-1999	Nels	

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		JP2002234951 A	08-23-2002	BorgWarner Inc.		
		JP58180573 A	10-22-1983	Akechi Ceramics KK		
		JP5009458 A	01-19-1993	Toshiba Tungaloy Co Ltd		
		JP55005907 A	01-17-1980	Kureha Chemical Ind Co Lt		
		JP59103040 A	06-14-1984	Komatsu Mfg Co Ltd		
		JP6240233 A	08-30-1994	Toshiba Tungaloy Co Ltd		

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Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
		US- 5998311	12-07-1999	Nels	
		US- 6000510	12-14-1999	Kirkwood et al.	
		US- 6004750	12-14-1999	Lam	
		US- 6019205	02-01-2000	Willworth	
		US-			
		US- 6042935	03-28-2000	Krenkel et al.	
		US- 6060536	05-09-2000	Matsumoto et al.	
		US- 6065579	05-23-2000	Nels	
		US- 6074950	06-13-2000	Wei	
		US- 6121168	09-19-2000	Irifune et al.	
		US- 6123829	09-26-2000	Zommerman et al.	
		US- 6130176	10-10-2000	Lam	
		US- 6132877	10-17-2000	Winckler et al.	
		US- 6140388	10-31-2000	Nass et al.	
		US- 6163636	12-09-2000	Stentz et al.	
		US- 6182804 B1	02-06-2001	Lam	
		US- 6194850 B1	02-27-2001	Yoshii	
*		US- 6217413 B1	04-17-2001	Christianson	
		US- 6231977 B1	05-15-2001	Suzuki et al.	

FOREIGN PATENT DOCUMENTS

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		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
		JP6299434 A	10-25-1994	Staubli Sa Ets		
		JP63066230 A	03-24-1988	Aisin Chem		
		JP63-152735	06-25-1988	Aisin Chem, Toyota Motor		
		JP8210402 A	08-20-1996	Nippon Oil Co Ltd		
		JP176667 A	07-08-1997	Nitto Denko Corp		
		JP9324824 A	12-16-1997	Jatco Corp		

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Application Number	10/678599
Filing Date	October 03, 2003
First Named Inventor	Robert C. Lam
Art Unit	1794
Examiner Name	Jennifer A. Steele

Attorney Docket Number DKT01092 (0309.4094.901)

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		Number-Kind Code ² (if known)			
		US- 6265066 B1	07-24-2001	Suzuki et al.	
		US- 6284815 B1	09-04-2001	Sasahara et al.	
		US- 6291040 B1	09-18-2001	Moriwaki et al.	
		US- 6315974 B1	11-13-2004	Murdie et al.	
		US- 6316086 B1	11-13-2001	Beier et al.	
		US- 6323160 B1	11-27-2001	Murdie et al.	
		US- 6352758 B1	03-05-2002	Huang et al.	
		US- 6383605 B1	05-07-2002	Ejiri	
		US- 6387531 B1	05-14-2002	Pi et al.	
		US- 6423668 B1	07-23-2002	Nakanishi et al.	
		US- 6432151 B1	08-13-2002	So et al.	
		US- 6432187 B1	08-13-2002	Ogawa et al.	
		US- 6524681 B1	02-25-2003	Seitz et al.	
		US- 6569816 B2	05-27-2003	Oohira et al.	
		US- 6586373 B2	07-01-2003	Suzuki et al.	
		US- 6601321 B1	08-05-2003	Kendall	
		US- 6808225 B2	10-26-2004	Moriyama	
		US- 6830446 B1	10-07-2003	Lam et al.	
		US- 6638883 B2	10-28-2003	Gaffney et al.	

FOREIGN PATENT DOCUMENTS

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		JP5247447 A	09-24-1993	Minnesota Mining, Gen Mot		
		WO2005/102962 A1	11-03-2005	Honeywell International		
		WO2006/101799 A2	09-28-2006	Honeywell International		
		WO2006/116474 A2	11-02-2006	BorgWarner Inc.		
		WO2007/055951 A1	05-18-2007	BorgWarner Inc.		
		WO95/26473	10-05-1995	Valeo		

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Sheet 15 of 20

Application Number	10/678599
Filing Date	October 03, 2003
First Named Inventor	Robert C. Lam
Art Unit	1794
Examiner Name	Jennifer A. Steele
Attorney Docket Number	DKT01092 (0309.4094.901)

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		Number-Kind Code ² (if known)			
		US- 6652363 B2	11-25-2003	Kramer et al.	
		US- 6668891 B2	12-30-2003	Collis	
		US- 6703117 B2	03-09-2004	Gruber et al.	
		US- 6831146 B2	12-14-2004	Aiba et al.	
		US- 6855410 B2	12-15-2005	Buckley	
		US- 6875711 B2	05-05-2005	Chen et al.	
		US- 6951504 B2	10-04-2005	Adefris et al.	
		US- 7014027 B2	03-21-2006	Adair et al.	
		US- 7160913 B2	01-09-2007	Schneider	
		US- 7208432 B1	04-24-2007	Beier et al.	
		US- 7204388 B2	11-13-2007	Lam et al.	
		US- 7332240 B2	02-19-2008	O'Hara et al.	
		US- 7429418 B2	09-30-2008	Lam et al.	
		US-			

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		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
		WO96/10701 A1	04-11-1996	Nels, Terry E.		
		WO98/09093 A1	03-05-1998	BorgWarner Inc.		
		WO99/35415 A1	07-15-1999	Nels, Terry E.		

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<i>(Use as many sheets as necessary)</i>			First Named Inventor	Robert C. Lam	
			Art Unit	1794	
			Examiner Name	Jennifer A. Steele	
Sheet	16	of	20	Attorney Docket Number	DKT01092 (0309.4094.901)

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		Application No. EP01309199 Search Report, completed 15 February 2002		
		Application No. EP02257364 Search Report, completed 3 December 2003		
		Application No. EP03255504 Search Report, completed 4 December 2003		
		Application No. EP03256313 Search Report, completed 5 March 2009		
		Application No. EP04253746 Search Report, completed 3 May 2005		
		Application No. EP04255582 Search Report, completed 15 June 2007		
		Application No. EP04255993 Search Report, completed 5 June 2009		
		Application No. EP05254284 Search Report, completed 2 November 2005		
		Application No. EP05253694 Search Report, completed 18 October 2005		
		Application No. EP05254474 Search Report, completed 21 October 2005		

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		Application No. EP06758609 Search Report, completed 6 May 2008		
		Application No. EP08012805 Search Report, completed 14 October 2008		
		Application No. EP96306350 Search Report, completed 4 December 1996		
		Application No. PCT/US06/15769 International Search Report and Written Opinion, International Filing Date 25 April 2006		
		Application No. PCT/US06/42342 International Search Report and Written Opinion, International Filing Date 31 October 2006		
		Application No. PCT/US07/07788 International Search Report and Written Opinion, International Filing Date 28 March 2007		
		Application No. PCT/US2008/073266 International Search Report, International Filing Date 15 August 2008		
		Application No. PCT/US2008/080617 International Search Report, International Filing Date 21 October 2008		
		Application No. PCT/US97-15260 International Search Report, completed 20 November 1997		

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		ASTM D638-08 Standard Test Method for Tensile Properties of Plastics, Copyright 1996-2009, pp. 1-4 ASTM International, West Conshohocken, PA, US		
		Tensile Property Testing of Plastics; MatWeb: MATERIAL PROPERTY DATA, www.matweb.com/reference/tensilestrength		
		SPILIADIS, S., Garniture de freins a hautes performances contenant de la pulpe para-aramide Kevlar, 1141 Ingénieurs de L'Automobile, (1989) Decembre, No. 653, Courbevoie, FR		
		GARSHIN et al., Structural Features of a Carbon Plastic Material Infiltrated with Molten Silicon; Refractories and Industrial Ceramics, pp.419-22, 2005		
		MA et al., Effect of Infiltrating Si on Friction Properties of C/C Composites; J. Cent. South Univ. Technol. Vol. 10, No. 3, Sep. 2003, pp.173-176		
		JOSEPH, Marjory, Introductory Tensile Science, pp. 164, Holt, Rinehart and Wilson, Fifth Edition, Copyright 1986		
		ZHAOTING LIU et al., Synthesis of ZnFe ₂ O ₄ /SiO ₂ composites derived from a diatomite template, Bioinspiration & Biomimetics, 2 (2007) pp.30-35		
		ANDERSON et al., Hierarchical Pore Structures through Diatom Zeolitization, Angew. Chem, Int. Ed. 2000, Vol. 39, No. 15, pp. 2707-2710		
		YAJUN WANG et al., Zeolitization of diatomite to prepare hierarchical porous zeolite materials through a vapor-phase transport ..., j. Mater. Chem, 2002, Vol. 12, pp. 812-1818		
		BLANCO et al., Chemical and Physical properties of carbon as related to brake performance, Elsevier, Wear 213 (1997) pp 1-12		

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		Carbon Fiber for Wet-Friction Transmissions, SAE Technical, Off-Highway Engineering/February 1998, pp.46-48		
		HETTINGER, JR. et al., Carboflex and Aerocarb-Ashland's New Low Cost Carbon Fiber and Carbonizing Products for Future Break Applications, 860767, Copyright 1986, pp. 1-11		
		GIBSON et al., Carbon/Carbon Friction Materials for Dry and Wet Brake and Clutch Applications, SAE Technical Paper Series, 890950, Copyright 1989, pp 1-6		
		CARDOLITE Brochure, Cardolite Corporation, www.cardolite.com, edition June 2004		
		What is a TPE?, GLS Corporation, www.glsorporation.com/resources/faqs.php, copyright 2007		
		LAM et al., Friction Material for Continuous Slip Torque Converter Applications: Anti-Shudder Considerations, 941031, pp. 1-11		
		MPEP 1504.0 Double Patenting [R-5] - 25 - Design Patents, United States Patent and Trademark Office, USPTO.gov, Last Modified: 12/05/2006		
		USSN 12/185,236; FRICTION MATERIAL WITH SILICON, Feng Dong, Filed 08-04-2008		
		USSN 12/084,514; CARBON FRICTION MATERIALS, Feng Dong et al., Filed 05-01-2008		
		USSN 10/871,786; FULLY FIBROUS STRUCTURE FRICTION MATERIAL, Robert C. Lam, Filed 06-18-2004		

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			Examiner Name	Jennifer A. Steele
Sheet	20	of	20	Attorney Docket Number
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		USSN 11/410,722, FRICTION MATERIAL, Robert C. Lam, Filed 04-25-2006		
		USSN 12/225,014, FRICTION MATERIALS MADE WITH RESINS CONTAINING POLAR FUNCTIONAL GROUPS, Timothy P. Newcomb, Filed 09-10-2008		
		USSN 10/678,720, FRICTION MATERIAL CONTAINING PARTIALLY CARBONIZED CARBON FIBERS, Robert C. Lam, Filed 10-03-2003		
		USSN 12/400,904, FRICTIONAL DEVICE COMPRISING AT LEAST ONE FRICTION PLATE, Eckart Gold, Filed 03-10-2009		
		USSN 12/492,261, FRICTION MATERIALS, Herschel L. McCord, Filed 06-26-2009		
		USSN 10/898,882, POROUS FRICTION MATERIAL WITH NANOPARTICLES OF FRICTION MODIFYING MATERIAL, Robert C. Lam, Filed 07-26-2004		
		USSN 10/678,598, MIXED DEPOSIT FRICTION MATERIAL, Robert C. Lam, Filed 10-03-2003		
		USSN 10/678,599, HIGH PERFORMANCE, DURABLE, DEPOSIT FRICTION MATERIAL, Robert C. Lam, Filed 10-03-2003		
		USSN 10/916,328, HIGH COEFFICIENT WOVEN FRICTION MATERIAL, Robert C. Lam, Filed 08-11-2004		
		USSN 12/157,901, POROUS FRICTION MATERIAL COMPRISING NANOPARTICLES OF FRICTION MODIFYING MATERIAL, Robert C. Lam, Filed 06-12-2008		

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